Patent Docket: K35A1001

## In The Claims

Please amend the claims as follows:

1. (currently amended) A method of storing a plurality of audio/video (A/V) programs within a transport stream on a storage medium for presentation to a viewer, comprising:

receiving athe transport stream structured in packets and representing a-the plurality of A/V programs, each A/V program represented by a plurality of packets and identified by program identification data in each packet;

detecting the program identification data of each received packet;

storing data of packets relating to a single A/V program within the transport stream in a buffer portion separate from buffer portions for data of packets having program identification data related to different A/V programs within the transport stream; and

transferring the data of the packets from the separate buffer portions to separate storage files in a storage medium, each storage file storing only data of the packets having program identification data related to a single A/V program.

- 2. (original) The method of Claim 1, wherein the A/V program includes at least one of a video program, an audio program and data content.
- 3. (original) The method of Claim 1, wherein the transferring includes storing the data of the packets in separate storage files of a hard disk drive.
- 4. (original) The method of Claim 3, further comprising selectively overwriting or deleting one or more storage files.
- 5. (original) The method of Claim 4, further comprising reading from a storage file while playing back a recorded A/V program.

Western Digital Technologies, Inc.

Serial Number: 10/002,388

3

Docket: K35A1001

6. (original) The method of Claim 1, wherein a packet of a transport stream includes a program association table and a program map table that describe the A/V program of the transport stream.

- 7. (original) The method of Claim 6, further comprising reading from a file while playing back a recorded A/V program, wherein the reading occurs in accordance with the program identification data, program association table and program map table.
- 8. (original) The method of Claim 6, wherein the packet further includes a conditional access table that enables a user to subscribe to a conditional access service.
- 9. (original) The method of Claim 1, wherein receiving the data stream includes receiving the transport stream over an interface in accordance with the IEEE-1394 specification.
- 10. (currently amended) An audio/video (A/V) system for storing A/V programs, comprising:

an interface configured to receive a transport stream structured in packets and representing a plurality of A/V programs, each A/V program represented by a plurality of packets and identified by program identification data in each packet;

a storage management system connected to receive the transport stream from the interface and to detect the program identification data of each received packet;

a buffer coupled to the storage management system and having a plurality of separate buffer portions, each buffer portion being in communication with the storage management system to receive data of packets having program identification data related to a single A/V program within the transport stream and to store the data of the packets separate from data of packets having program identification data related to different A/V programs within the transport stream; and

a storage medium coupled to the storage management system and having a plurality of separate storage files for the A/V programs, each storage file receiving

Docket: K35A1001

data of the packets having program identification data related to a single A/V program and transferred from one of the separate buffer portions of the buffer.

- 11. (original) The system of Claim 10, wherein the A/V program includes at least one of a video program, an audio program and data content.
- 12. (original) The system of Claim 10, wherein the interface is configured to operate in accordance with the IEEE-1394 specification.
- 13. (original) The system of Claim 10, wherein the storage medium is a hard disk drive.
- 14. (original) The system of Claim 13, wherein the storage management system controls the hard disk drive to selectively overwrite or delete one or more storage files.
- 15. (original) The system of Claim 10, wherein the storage management system includes a plurality of filters, each filter assigned to a buffer channel and configured to detect data comprised in packets having program identification data related to a single A/V program, each buffer channel connecting the filter to one of the buffer portions.

Please add the following new claim:

16. (new) An audio/video (A/V) system for storing A/V programs, comprising:

an interface configured to receive a transport stream structured in packets and representing a plurality of A/V programs, each A/V program represented by a plurality of packets and identified by program identification data in each packet;

a storage management system connected to receive the transport stream from the interface and to detect the program identification data of each received packet, wherein the storage management system includes a plurality of filters, each filter assigned to a buffer channel and configured to detect data comprised in packets having program identification data related to a single A/V program, each buffer channel connecting the filter to one of the buffer portions;

a buffer coupled to the storage management system and having a plurality of separate buffer portions, each buffer portion being in communication with the Western Digital Technologies, Inc. Serial Number: 10/002,388

5

Patent Patent Docket: K35A1001

storage management system to receive data of packets having program identification data related to a single A/V program and to store the data of the packets separate from data of packets having program identification data related to different A/V programs; and

a storage medium coupled to the storage management system and having a plurality of separate storage files for the A/V programs, each storage file receiving data of the packets having program identification data related to a single A/V program and transferred from one of the separate buffer portions of the buffer.